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United States Patent [19]

Springer et al.

Patent Number:

5,284,931

Date of Patent:

Feb. 8, 1994

[54] INTERCELLULAR ADHESION MOLECULES, AND THEIR BINDING LIGANDS

[75] Inventors: Timothy A. Springer, Newton, Muss.; Robert Rothlein; Steven D. Marlin, both of Danbury, Conn.; Michael L. Dustin, University City, Mo.

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[21] Appl. No.: 515,478

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Related U.S. Application Data

To. Hall J #905271

Continuation-in-part of Ser. No. 456,647, Dec. 1989, which is a continuation in part of Scr. No. 45,963, May 4, 1987, which is a continuation-in-part of Ser. No. 115,798, Nov. 2, 1987, which is a continuation-in-part of Ser. No. 155,943, Feb. 16, 1988, which is s continuation-in-part of Ser. No. 189,815, May 3, 1988, which is a continuation-in-part of Scr. No. 250,446. Sep. 28, 1988, which is a continuation-in-part of Ser: No. 324,481, Mar. 16, 1989, which is a communation-inpart of Ser. No. 373,882. Jun. 30, 1989, which is a continuation-in-part of Ser. No. 456,647, Dec. 22, 1989.

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530/395; 530/808; 530/868; 514/8 Field of Search 424/85.8, 85.91; 530/387, 389, 808, 388.22

[56]

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[57]

ABSTRACT

Pharmaceutical compositions comprising antibodies to intercellular adhesion molecule-1 (ICAM-1 or CD54) are useful in methods of decreasing the severity of inflammation associated with the adhesion of leukocytes to cells bearing ICAM-1. Treatment with anti-ICAM-1 antibodies reduced the severity of inflammation associsted with scute organ or tissue rejection and prolonged allograft survival time. Such compositions may optionally contain other immunsuppressive agents.

11 Claims, 25 Drawing Sheets